Index of Claims



Application/Control No.

Applicant(s)/Patent under Reexamination

10/816,913

MORIMOTO, HIROYUKI Art Unit

Examiner

Jae U. Yu

2185

Rejected Allowed

(Through numeral) Cancelled

Non-Elected N

**Appeal** Α

Restricted

Interference

0 Objected

|                 |  |                                       |          |  |              |          | ı  |              |          | <u> </u> |  |
|-----------------|--|---------------------------------------|----------|--|--------------|----------|--|--------------|----------|----------|--|
| Cla             | Date   |                                       |          |  |              |          |  |              |          |          |  |
| Final           | Original                                     | 7/21/06                               |          |  |              |          |  |              |          |          |  |
|                 | 1  | 1                                     |          | Г  | $\vdash$     | Т        | $\vdash$   | 1            | $\vdash$ | Н        |  |
|                 | 1<br>2<br>3<br>4<br>5<br>6                   | 1                                     |          |  | Г            |          |  |              | Г        | П        |  |
|                 | 3  | 1                                     |          |  |              |          |  |              |          |          |  |
|                 | 4  | 1                                     |          |  |              |          |  |              |          |          |  |
|                 | 5  | √                                     |          |  | L            |          |  |              | _        |          |  |
|                 |  | <b>√</b>                              |          |  | ļ            |          |  | L            | _        |          |  |
|                 | 7<br>8<br>9                                  | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ |          | <u> </u>   | -            | L        | _  | _            | <u> </u> | Н        |  |
|                 | 8  | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | <u> </u> | ├  | ├            | ├─       | -  | -            | <u> </u> |          |  |
|                 | 10   | 1                                     | _        |  | -            | ┝        | -  | -            | H        | H        |  |
|                 | 11   | 1                                     |          | -  | <del> </del> | ┢        | <del> </del>                                     | ┢─           | $\vdash$ | Н        |  |
|                 | 12   | Ì                                     | H        | $\vdash$   | $\vdash$     | 一        | -  | $\vdash$     | 一        | Н        |  |
|                 | 10<br>11<br>12<br>13<br>14<br>15<br>16<br>17 | \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | T        | $\vdash$   | $\vdash$     | Н        | <del>                                     </del> | Н            | <b>-</b> | Н        |  |
|                 | 14   |                                       |          |  |              | -        |  |              |          | П        |  |
|                 | 15   | √.                                    |          |  |              |          |  |              |          |          |  |
|                 | 16   |                                       |          |  |              |          |  |              |          |          |  |
|                 | 17   | _                                     |          | <u> </u>   |              |          |  |              |          | Ш        |  |
|                 | 18<br>19                                     | _                                     |          | L  |              |          |  |              | <u> </u> | L        |  |
|                 | 19   | <u> </u>                              | L_       | <u> </u>   |              |          | <u> </u>   | <u> </u>     | <u> </u> |          |  |
|                 | 20   | -                                     |          | <u> </u>   |              | _        | <u> </u>   |              | -        | _        |  |
|                 | 21   | $\vdash$                              | $\vdash$ |  |              | <u> </u> |  | <del> </del> | -        |          |  |
|                 | 21<br>22<br>23                               | H                                     |          | ├  |              |          | -  |              | -        |          |  |
| $\vdash$        | 24   | $\vdash$                              |          | ┢  | _            |          | $\vdash$   | -            | -        | Н        |  |
| _               | 24<br>25<br>26<br>27<br>28                   |                                       | -        | <del>                                     </del> | <u> </u>     |          |  | Т            | $\vdash$ | Н        |  |
|                 | 26   |                                       |          |  |              |          |  | $\vdash$     | Г        |          |  |
|                 | 27   |                                       |          |  |              |          |  |              |          |          |  |
|                 | 28   |                                       |          |  |              |          |  |              |          |          |  |
|                 | 29<br>30<br>31                               |                                       |          | _  |              | L_       | L  | _            | L.       | Щ        |  |
|                 | 30   | <u> </u>                              |          | <u> </u>   | ļ            |          | _  | _            |          | Ш        |  |
| <u> </u>        | 31   |                                       |          | ⊢  |              | <u> </u> |  |              | -        | Н        |  |
| _               | 32<br>33                                     |                                       |          | $\vdash$   | ┝            | ├        | ┝  | ⊢            | -        | Н        |  |
| <u> </u>        | 34   | ┝                                     | $\vdash$ | $\vdash$   | $\vdash$     | ├        | -  | -            | ┢╾       | Н        |  |
| <b></b>         | 35   | _                                     | _        | $\vdash$   | $\vdash$     | ┢        | H  | -            | $\vdash$ | H        |  |
| <b></b>         | 36   | _                                     | Г        |  | Т            | Т        | $\vdash$   | Т            | Г        | Н        |  |
|                 | 37<br>38                                     |                                       |          |  |              |          |  |              |          |          |  |
|                 | 38   |                                       |          |  |              |          |  |              |          |          |  |
|                 | 39   |                                       |          |  |              |          |  |              |          |          |  |
|                 | 40   |                                       |          |  | <u> </u>     |          |  |              | _        |          |  |
|                 | 41   | <u> </u>                              | L        |  | <u> </u>     | <u> </u> | <u> </u>   | L            | <u> </u> | Щ        |  |
|                 | 42   | ├                                     | $\vdash$ | <u> </u>   | <u> </u>     | <u> </u> |  |              | H        | <u> </u> |  |
| $\vdash \vdash$ | 43<br>44                                     |                                       | $\vdash$ | $\vdash$   | _            | -        |  | $\vdash$     | -        | $\vdash$ |  |
| $\vdash$        | 45   | $\vdash$                              | H        | -  | -            | $\vdash$ | _  | ┝            | H        | H        |  |
|                 | 46   |                                       | H        |  | -            |          | -  | <del> </del> | H        | H        |  |
| $\vdash$        | 47   | $\vdash$                              | $\vdash$ | $\vdash$   |              |          | $\vdash$   | $\vdash$     | Н        | H        |  |
|                 | 48   | Г                                     | Г        | Г  | Т            | П        | Т  | Г            | Т        | П        |  |
|                 | 49   |                                       |          |  |              |          |  |              |          |          |  |
|                 | 50   |                                       |          | Γ  |              |          |  |              |          |          |  |

| Cla      | im       | Date     |                           |              |          |          | Claim    |     |          | Date     |    |       |           |          |   |   |   |                                     |               |   |          |          |
|----------|----------|----------|---------------------------|--------------|----------|----------|----------|-----|----------|----------|----|-------|-----------|----------|---|---|---|-------------------------------------|---------------|---|----------|----------|
|          | Original | 7/21/06  |                           |              |          |          |          |     |          |          |    | Final | Original  |          |   | · |   |                                     |               |   |          |          |
|          | 1        | <b>V</b> |                           | Г            |          |          |          |     | Г        |          |    |       | 51        |          |   |   |   |                                     |               |   |          |          |
|          | 3        | 1        |                           |              |          |          |          |     |          |          |    |       | 52        |          |   |   |   |                                     |               |   |          |          |
|          | 3        | 1        |                           |              |          |          |          |     |          |          |    |       | 53        |          |   |   |   |                                     |               |   |          |          |
|          | 4        | 1        |                           |              |          |          |          |     |          |          |    |       | 54        |          |   |   |   |                                     |               |   | Ш        |          |
|          | 5<br>6   | 1        |                           |              | L        |          |          |     | <u></u>  |          |    |       | 55        |          |   |   |   |                                     |               |   | Ш        |          |
| _        | 6        | 1        |                           | ļ            |          |          |          |     |          |          |    |       | 56        |          |   |   |   |                                     | _             |   |          |          |
| _        | 7        | <u>^</u> |                           | ļ            | <u> </u> | <u> </u> |          |     | <u> </u> |          |    |       | 57        | _        |   | _ |   |                                     |               |   | $\vdash$ | Ш        |
| _        | 8<br>9   | 7        |                           | <u> </u>     | ┝        | ┝        | -        | _   | H        |          |    |       | 58        |          |   |   |   | ┝                                   | _             |   | $\vdash$ |          |
| $\dashv$ | 10       | 7        |                           |              | -        | ├-       |          |     | _        |          |    |       | 59<br>60  |          | _ | _ | _ | <u> </u>                            | _             | _ | $\vdash$ |          |
| -        | 11       | 7        |                           | ├─           | ┢        | ┝        | -        | _   | H        |          |    |       | 61        | -        |   | _ |   | ┢                                   | -             |   | $\vdash$ | -        |
| ᅥ        | 12       | 7        |                           | $\vdash$     | $\vdash$ | ┢        |          | _   | $\vdash$ |          |    |       | 62        |          |   |   | _ | -                                   |               |   | Н        | H        |
| -        | 13       | 7        |                           | ┢            | $\vdash$ | $\vdash$ |          | _   |          |          |    |       | 63        | -        |   |   | _ | _                                   |               | _ | П        | П        |
|          | 13<br>14 | 7        |                           |              | _        | -        |          |     |          | Г        |    |       | 64        | _        |   | _ |   | $\vdash$                            |               |   | $\Box$   |          |
|          | 15       | 1        |                           |              |          | _        | _        |     |          | $\vdash$ |    |       | 65        |          |   |   |   |                                     |               |   | П        |          |
|          | 16       |          |                           | Г            | Г        |          |          |     |          | Г        |    |       | 66        |          |   |   |   |                                     |               |   |          |          |
|          | 17       |          |                           |              |          |          |          |     |          |          |    |       | 67        |          |   |   |   |                                     |               |   |          |          |
|          | 18       |          |                           |              |          |          |          |     |          |          |    |       | 68        |          |   |   |   |                                     |               |   |          |          |
|          | 19       |          |                           |              |          |          |          |     |          | L        |    |       | 69        |          |   |   |   |                                     |               |   |          |          |
|          | 20       |          |                           |              |          |          |          |     | <u> </u> | _        |    |       | 70        |          |   |   |   | <u> </u>                            | Ш             |   |          |          |
| _        | 21       |          |                           |              |          | ļ        | نـــا    |     |          |          |    |       | 71        |          | _ |   |   | ļ                                   | _             |   | Ш        |          |
| _        | 22       |          |                           |              |          |          | L        |     | <u> </u> |          |    |       | 72        |          |   |   |   | <b> </b>                            | _             | _ |          |          |
| 4        | 23       | _        |                           | <u> </u>     | _        |          | H        |     |          |          |    |       | 73        |          |   |   |   | <u> </u>                            | _             |   |          |          |
| -        | 24<br>25 |          | -                         |              |          | <u> </u> | H        | _   | <u> </u> | -        |    |       | 74<br>75  |          |   |   |   | ├                                   | -             | _ | $\vdash$ |          |
|          | 26       |          |                           | -            | -        |          | -        | _   | ┝        | ┝        |    |       | 76        | $\vdash$ | - |   |   | ┝                                   | _             |   |          |          |
|          | 27       | _        |                           | -            |          | $\vdash$ | $\vdash$ |     | -        | ┝        |    |       | 77        |          | _ | _ |   | ┢                                   | -             |   |          |          |
|          | 28       |          | -                         | $\vdash$     |          | $\vdash$ |          | _   | -        | ┢        |    |       | 78        | <u> </u> | _ |   | _ |                                     | -             |   |          |          |
|          | 29       |          |                           | $\vdash$     | Т        |          |          |     |          | Г        |    |       | 79        |          |   |   |   | $\vdash$                            | _             |   |          | П        |
|          | 30       |          |                           |              |          |          |          |     | Г        |          |    |       | 80        |          |   |   |   |                                     |               |   |          |          |
|          | 31       |          |                           |              |          |          |          |     |          |          |    |       | 81        |          |   |   |   |                                     |               |   |          |          |
|          | 32       |          |                           |              |          |          |          |     |          |          |    |       | 82        | $\Box$   |   |   |   |                                     |               |   |          |          |
|          | 33       |          |                           | <u> </u>     | L        | L        |          |     |          |          |    |       | 83        | $\Box$   |   |   |   |                                     |               |   |          |          |
| _        | 34       |          |                           | <u> </u>     | <u> </u> | L_       |          |     |          | L        |    |       | 84        | Ш        |   | _ |   | _                                   |               |   | Ш        |          |
| _        | 35       |          | _                         | <u> </u>     | <u> </u> | <u> </u> |          |     | _        | ┡        |    |       | 85        | <u> </u> |   |   |   |                                     |               |   | Ш        |          |
|          | 36       |          | _                         | <u> </u>     | <b> </b> | <u> </u> | _        |     | <u> </u> | -        |    |       | 86        | $\vdash$ |   |   |   | H                                   |               |   | $\vdash$ | -        |
| ┥        | 37<br>38 |          |                           | <del> </del> |          | ├        |          | _   | -        |          |    |       | 87<br>88  | H        | _ | _ |   | -                                   | -             |   | $\vdash$ |          |
| -        | 39       |          |                           |              | -        | ┝        | -        |     | $\vdash$ |          | }  |       | 89        | $\vdash$ |   |   |   | -                                   | _             |   |          |          |
| -        | 40       |          | -                         | _            | -        | $\vdash$ |          | _   |          |          |    |       | 90        |          | _ |   |   | _                                   | _             |   | $\vdash$ |          |
| ٦        | 41       |          | _                         |              | _        | $\vdash$ |          |     |          |          |    |       | 91        | Н        |   |   |   |                                     |               |   | П        |          |
| ┪        | 42       |          |                           | $\vdash$     | $\vdash$ | $\vdash$ |          | -   | _        |          |    |       | 92        | П        | _ |   |   |                                     |               |   | П        |          |
| $\neg$   | 43       |          |                           |              | Г        |          |          |     |          |          |    |       | 93        |          |   |   |   |                                     |               |   | П        |          |
|          | 44       |          |                           |              |          |          |          |     |          |          |    |       | 94        |          |   |   |   |                                     |               |   |          |          |
|          | 45       |          |                           |              |          |          |          |     |          |          | [  |       | 95        |          |   |   |   |                                     |               |   |          |          |
|          | 46       |          |                           |              | L        |          |          |     |          |          |    |       | 96        | Щ        |   |   |   | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ |               |   | Ш        | Ш        |
| _        | 47       |          |                           | Ш            |          |          | L_       |     | _        | _        |    |       | 97        | Щ        | _ |   |   | _                                   |               |   | Щ        | Ш        |
| _        | 48       | $\vdash$ | $ldsymbol{ldsymbol{eta}}$ | $\vdash$     | $\vdash$ | <u> </u> | <u> </u> | L., |          | <u> </u> |    |       | 98        | $\vdash$ |   |   |   | L                                   | $\sqsubseteq$ | _ |          |          |
| 4        | 49       | Щ        | _                         | ├            | H        | H        |          | _   | <b>—</b> | $\vdash$ |    |       | 99<br>100 | $\vdash$ | _ | _ |   | <u> </u>                            | Щ             | _ |          | $\vdash$ |
|          | 50       |          |                           |              | _        | Ш        | Щ        | L   | L        | L        | ıl |       | 100       |          |   |   |   | _                                   |               |   | Ш        | Ш        |

| Claim |                          | Date         |          |          |              |              |  |              |          |                 |  |  |
|-------|--------------------------|--------------|----------|----------|--------------|--------------|--|--------------|----------|-----------------|--|--|
|       |                          | -            |          |          |              |              |  |              |          |                 |  |  |
| Final | Original                 |              |          |          |              |              |  |              |          |                 |  |  |
|       | 101                      |              |          |          |              |              |  |              |          |                 |  |  |
|       | 102<br>103               |              |          |          |              |              |  |              |          |                 |  |  |
|       | 103                      |              |          |          |              |              |  |              |          |                 |  |  |
|       | 104<br>105               |              |          |          |              | L            | L  |              |          | Щ               |  |  |
|       | 105                      | _            |          |          | _            |              | <u> </u>   |              |          |                 |  |  |
|       | 106                      |              |          |          | <u> </u>     |              | L  | _            |          |                 |  |  |
|       | 107                      |              |          | _        | _            |              | <u> </u>   |              |          | Н               |  |  |
|       | 108                      |              | _        | _        |              |              |  |              |          |                 |  |  |
|       | 109<br>110               | <u> </u>     | <u> </u> | _        | -            | ļ            |  |              |          | -i              |  |  |
|       | 110                      | H            | _        |          |              |              | -  | -            | -        | -               |  |  |
|       | 111                      | H            | ├        | $\vdash$ | Н            | $\vdash$     | ┝  | -            |          | $\dashv$        |  |  |
|       | 112                      | -            |          | <u> </u> | $\vdash$     | $\vdash$     | ⊢  | $\vdash$     |          | $\dashv$        |  |  |
|       | 111<br>112<br>113<br>114 | H            | -        |          |              | $\vdash$     | $\vdash$   | $\vdash$     | H        | $\vdash$        |  |  |
|       | 115                      | Н            |          |          | -            |              | <del>                                     </del> | ┢            | _        | $\dashv$        |  |  |
|       | 115<br>116               |              |          | <u> </u> | <b>-</b>     | <u> </u>     | $\vdash$   | Г            | -        | $\vdash$        |  |  |
|       | 117                      |              | $\Box$   |          |              | Т            |  | П            | П        | П               |  |  |
|       | 118                      |              |          |          |              |              |  | П            |          |                 |  |  |
|       | 119                      |              |          |          |              |              |  |              |          |                 |  |  |
|       | 120                      |              |          |          |              |              |  |              |          |                 |  |  |
|       | 121<br>122               |              |          |          |              |              |  |              |          |                 |  |  |
|       | 122                      |              |          |          |              | <u> </u>     |  |              |          |                 |  |  |
|       | 123                      | <u> </u>     |          | <u> </u> | L            | _            | <u> </u>   |              |          |                 |  |  |
|       | 123<br>124<br>125        | _            | _        | L        |              | _            | <u> </u>   | _            | _        | $\square$       |  |  |
|       | 125                      | <u> </u>     | _        | <u> </u> |              | _            | <u> </u>   |              | <u> </u> | Н               |  |  |
|       | 126                      |              | _        | <u> </u> | H            | ┡            |  |              | _        | Н               |  |  |
|       | 126<br>127<br>128        | <u> </u>     | -        | ⊢        | ⊢            | <u> </u>     | -  | _            | H        | H               |  |  |
|       | 120                      | ┝            |          |          | -            |              |  |              | H        |                 |  |  |
|       | 129<br>130<br>131        | <del> </del> |          | ┝        | -            | <del> </del> | -  |              | H        | $\vdash$        |  |  |
|       | 131                      | ├-           | -        | -        | -            | <del> </del> | -  | -            | $\vdash$ | $\vdash$        |  |  |
|       | 132                      | _            |          | -        | H            | <u> </u>     | $\vdash$   |              | -        | $\Box$          |  |  |
|       | 132<br>133               | <u> </u>     | _        | _        | Г            | $\vdash$     | $\vdash$   | T            |          |                 |  |  |
| -     | 134                      | $\vdash$     |          | $\Box$   | _            | _            |  |              |          |                 |  |  |
|       | 135                      |              |          |          |              |              |  |              |          |                 |  |  |
|       | 136                      |              |          |          |              |              |  |              |          |                 |  |  |
|       | 137                      |              |          |          |              |              |  |              |          |                 |  |  |
|       | 138                      |              |          |          |              |              |  | L            |          |                 |  |  |
|       | 139                      |              |          |          |              |              |  | L.           | _        | П               |  |  |
|       | 140                      |              |          |          |              | Ш            | _  | L            |          | Щ               |  |  |
|       | 141                      |              |          |          |              | _            |  | L            |          | Н               |  |  |
|       | 142                      | H            | <u> </u> |          |              | L.           | <u> </u>   | $\vdash$     | <u> </u> | $\vdash$        |  |  |
|       | 143<br>144               | <b></b>      | <u> </u> | H        |              | -            | <u> </u>   |              | <b>-</b> | $\vdash \vdash$ |  |  |
|       | 144                      | $\vdash$     | <u> </u> | $\vdash$ | $\vdash$     | $\vdash$     | <u> </u>   |              | $\vdash$ | Н               |  |  |
|       | 146                      | $\vdash$     | <u> </u> | -        |              | $\vdash$     | $\vdash$   | $\vdash$     | H        | Н               |  |  |
|       | 147                      | $\vdash$     | $\vdash$ | -        | <del> </del> | $\vdash$     | $\vdash$   | $\vdash$     | $\vdash$ | $\vdash \vdash$ |  |  |
|       | 148                      | -            |          |          | $\vdash$     | <u> </u>     |  | <del> </del> | H        | $\vdash$        |  |  |
|       | 149                      | Н            | $\vdash$ | Н        | -            | Н            | _  |              | _        | $\vdash$        |  |  |
|       | 150                      |              | $\vdash$ |          | _            | Н            | $\vdash$   | $\vdash$     | Н        | H               |  |  |
|       |                          |              | Ь        | _        | _            | Щ_           | Ц  | Ц_           | ц_       | ш               |  |  |